CLAIMS

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What is claimed is:

1. A solar cell array comprising:

a first solar cell having a backside comprising a first area of a first electrical polarity and a second area of a second electrical polarity; and

a plurality of contact points on the first area and the second area, the contact points on the first area being electrically coupled to corresponding contact points on an area on a backside of a second solar cell by separate pieces of interconnect leads.

- 2. The solar cell array of claim 1 wherein each of the first area and the second area has at least three contact points.
- 3. The solar cell array of claim 1 wherein each of the pieces of interconnect leads comprises a strip of conductive material having a curve for strain relief.
- The solar cell array of claim 3 wherein the strip of conductive material
 comprises copper coated with a material selected from a group comprising tin and solder.
 - 5. The solar cell array of claim 1 wherein each of the pieces of interconnect leads comprises a strip of perforated conductive material.
- 6. The solar cell array of claim 1 wherein the pieces of interconnect leads

 comprise three interconnect leads.

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- 7. The solar cell array of claim 1 wherein each of the pieces of interconnect leads is soldered to a contact point on the first area and to a corresponding contact point on the area on the backside of the second solar cell.
- 8. The solar cell array of claim 1 further comprising a bus bar electrically5 coupled to the second area.
 - 9. The solar cell array of claim 1 further comprising a third solar cell having an area that is electrically coupled to the second area.
 - 10. The solar cell array of claim 1 wherein the solar cell array is part of a solar cell module.
- 11. A solar cell array comprising a first backside-contact solar cell having a plurality of contact points that are electrically coupled by individual pieces of interconnect leads to corresponding contact points on a second backside-contact solar cell.
 - 12. The solar cell array of claim 11 wherein at least one of the individual pieces of interconnect leads comprises a curved strip of conductive material.
 - 13. The solar cell array of claim 12 wherein the curved strip of conductive material comprises copper having an outer coating.
 - 14. The solar cell array of claim 13 wherein the outer coating comprises tin.
- 15. The solar cell array of claim 11 wherein at least one of the individual20 pieces of interconnect leads comprises a strip of perforated material.
 - 16. The solar cell array of claim 11 wherein the individual pieces of interconnect leads comprise three interconnect leads.

17. A method of fabricating a solar cell array, the method comprising:

using a first interconnect lead to electrically couple a first contact point on a backside of a first solar cell to a second contact point on a backside of a second solar cell; and

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using a second interconnect lead to electrically couple a third contact point on the backside of the first solar cell to a fourth contact point on the backside of the second solar cell, wherein the first contact point and the third contact point are on a conductive area on the backside of the first solar cell.

- 18. The method of claim 17 wherein the first interconnect lead comprises a10 curved strip of conductive material.
 - 19. The method of claim 18 wherein the conductive material comprises copper coated with tin.
 - 20. A solar cell array comprising:

a first backside-contact solar cell;

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a second backside-contact solar cell adjacent to the first backside-contact solar cell in a solar cell array; and

a plurality of connection means for electrically coupling the first backsidecontact solar cell to the second backside-contact solar cell.

21. The solar cell array of claim 20 further comprising a bus bar electrically20 coupled to the second backside-contact solar cell.

22. The solar cell array of claim 20 wherein each of the plurality of connection means comprises a strip of curved conductive material.